

**AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES  
MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS**

1. (Currently amended) A data transmission system for a machine tool ~~[[tools]]~~  
or production machine machines, comprising:
  - a drive based-controller including a controller;
  - at least one internal drive disposed inside the drive based-controller and  
controlling a first axle of the machine tool or production machine;
  - at least one external drive disposed outside the drive based-controller  
and controlling a second axle of the machine tool or production machine;
  - an internal parallel data bus connecting the controller with the at least  
one internal drive and having an internal data bus profile; and
  - an external serial data bus connecting the controller with the at least one  
external drive and having an external data bus profile identical to the internal  
data bus profile,
  - wherein data are transmitted via the parallel external bus and the serial  
bus is selected from the group consisting of Profibus, real-time Ethernet bus,  
USB bus, FireWire bus, Sercos bus and Profinet bus in form of a telegram  
with an identical data bus profile describing operating parameters of the at  
least one external drive and the at least one internal drive, said parameters  
selected from the group consisting of actual position value of an axle,  
setpoint value of an axle, status of the drive, and status of a component of  
the drive.
2. (Currently amended) The data transmission system of claim 1, wherein the  
internal drives and the external drives further comprise I/O units, with the I/O  
units of the internal drives integrated in or externally connected to the internal  
drives, said I/O units being connected with the corresponding internal and  
external drives for data transmission encoded by the identical data bus  
profile.

3. (Original) The data transmission system of claim 1, wherein the internal parallel data bus, the controller and the at least one internal drive are logically configured in the same manner as the external data bus.
4. (Original) The data transmission system of claim 1, wherein the at least one internal drive and the at least one external drive are coupled with each other so as to exhibit at least one of clock synchronism, identical timing and synchronized acquisition of an actual value.
5. (Canceled)
6. (Currently amended) A data transmission system for a machine tool ~~[[tools]]~~ or production machine ~~machines~~, comprising:  
a drive based-controller including a controller;  
at least one internal drive disposed inside the drive based-controller and controlling a first axle of the machine tool or production machine;  
at least one external drive disposed outside drive based-controller and controlling a second axle of the machine tool or production machine;  
an internal parallel data bus connecting the controller with the at least one internal drive ~~and having an internal data bus profile;~~ and  
an external serial data bus connecting the at least one internal drive with the at least one external drive ~~and having an external data bus profile identical to the internal data bus profile,~~  
wherein data are transmitted via the parallel external bus and the serial bus is selected from the group consisting of Profibus, real-time Ethernet bus, USB bus, FireWire bus, Sercos bus and Profinet bus in form of a telegram with an identical data bus profile describing operating parameters of the at least one external drive and the at least one internal drive, said parameters selected from the group consisting of actual position value of an axle, setpoint value of an axle, status of the drive, and status of a component of the drive.

7. (Currently amended) The data transmission system of claim 6, wherein the internal drives and the external drives further comprise I/O units, with the I/O units of the internal drives integrated in or externally connected to the internal drives, said I/O units being connected with the corresponding internal and external drives for data transmission encoded by the identical data bus profile.
8. (Original) The data transmission system of claim 6, wherein the internal parallel data bus, the controller and the at least one internal drive are logically configured in the same manner as the external data bus.
9. (Original) The data transmission system of claim 6, wherein the at least one internal drive and the at least one external drive are coupled with each other so as to exhibit at least one of clock synchronism, identical timing and synchronized acquisition of an actual value.
10. (Canceled).
11. (New) The data transmission system of claim 1, wherein the first drive comprises a first control module and a first converter module connected to a first motor that drives the first axle of the machine tool or production machine.
12. (New) The data transmission system of claim 1, wherein the second drive comprises a second control module and a second converter module connected to a second motor that drives the second axle of the machine tool or production machine.
13. (New) The data transmission system of claim 11, further comprising a first transducer operatively connected to the first drive and providing axle position values to the first control module of the first drive.

14. (New) The data transmission system of claim 12, further comprising a second transducer operatively connected to the second drive and providing axle position values to the second control module of the second drive.
15. (New) The data transmission system of claim 6, wherein the first drive comprises a first control module and a first converter module connected to a first motor that drives the first axle of the machine tool or production machine.
16. (New) The data transmission system of claim 6, wherein the second drive comprises a second control module and a second converter module connected to a second motor that drives the second axle of the machine tool or production machine.
17. (New) The data transmission system of claim 15, further comprising a first transducer operatively connected to the first drive and providing axle position values to the first control module of the first drive.
18. (New) The data transmission system of claim 16, further comprising a second transducer operatively connected to the second drive and providing axle position values to the second control module of the second drive.